

REMARKS

Applicant has amended the claims 1, 2, 3 and 4 and added new claims 12 through 16. Applicant respectfully submits that these amendments to the claims are supported by the application as originally filed and do not contain any new matter (see paragraphs [0048], [0049], [0052], [0053], [0054], [0055] and [0056] of the corresponding patent publication). Accordingly, the Office Action will be discussed in terms of the claims as amended.

The Examiner has rejected the claims 1 through 4 under 35 USC 103 as being obvious over Ogawa stating that Ogawa discloses the claimed invention including a shelf in a refrigerator having a food on the shelf, having a heat pump to cool the refrigerator/freezer, applying an AC and DC voltage simultaneously to the food, wherein the DC voltage is negative and while Ogawa is silent as to placing the food on the shelf and cooling the interior of the refrigerator, it is the Examiner's opinion that one of ordinary skill in the art at the time the invention was made would have found it obvious to place the food on the food shelves of Ogawa's refrigerator, to use the heat pump mechanism of the refrigerator/freezer to cool or freeze the food and to use the disclosed device as intended.

In reply to this rejection, Applicant has carefully reviewed Ogawa and respectfully submits that Ogawa does not disclose the last element of claim 1, namely:

"When the voltage applied to the food, electrons in dissolved oxygen of the food are stabilized prior to a chemical reaction thereof and water molecules in the food attract one another, so that water molecule clusters become smaller to be aligned to a sequence that holds the electrons in dissolved oxygen".

Still further, Applicant respectfully submits that Ogawa does not disclose at least the last feature of Applicant's new claim 12, namely that:

"The food is frozen and stored with a pH value thereof set high and with an entrance of a channel, which serves as a path through which exchange of ions and water of the molecules of the food is conducted, closed".

Still further, Applicant respectfully submits that Ogawa does not disclose that after the simultaneous application of DC/AC voltage, only one of the DC voltage or the AC voltage would be applied. This feature is particularly claimed in Applicant's claims 14 through 16. Applicant respectfully submits that Ogawa appears to merely disclose simultaneous applications of the DC and AC voltages for a predetermined period of time. Still further,

Applicant's new claim 13 requires that the magnitude of the negative DC voltage is always greater than or equal to the magnitude of the AC voltage. Applicant respectfully submits that Ogawa does not disclose anything concerning the relative magnitude of the AC and DC voltages. Finally, Applicant respectfully submits that in Ogawa some of the shelves can be positive or negative and some of the shelves are grounded. Applicant further respectfully submits that the purpose of the Ogawa construction is to provide an electric field between the shelves in which the food is inserted and as a result only the field is applied to the food and the food is not in direct contact with the voltage.

In view of the above, therefore, Applicant respectfully submits that the claims 1 through 4 and 12 through 16 are not obvious over Ogawa.

Applicant further respectfully and retroactively requests a one (1) month extension of time to respond to the office action and respectfully requests that the extension fee in the amount of \$65.00 be charged to QUINN EMANUEL DEPOSIT ACCOUNT NO. 50-4367.

In view of the above, therefore, it is respectfully requested that this Amendment be entered, favorably considered and the case passed to issue.

Please charge any additional costs incurred by or in order to implement this Amendment or required by any requests for extensions of time to QUINN EMANUEL DEPOSIT ACCOUNT NO. 50-4367.

Respectfully submitted,

By 

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Name

Signature

7/21/2009  
Date